

AMENDMENTS TO THE CLAIMS

1-38. (Cancelled)

39. (Currently Amended) An information media comprising: carrier having a wobbled groove formed along a track,

a track; and

a wobbled groove formed along said track;

wherein said wobbled groove ~~is modulated with an information signal in such a way that said wobbled groove~~ contains positive marks and negative marks, and

wherein at least one of ~~one or more of~~ said positive marks is ~~are~~ used for indicating one of a logical "0" ["1"] and ~~or~~ "1" ["0"] and at least one ~~one or more of~~ said negative marks is ~~are~~ used for indicating the other one of a logical "0" and ~~or~~ "1", respectively.

40. (Currently Amended) An information media ~~carrier~~ according to claim 39, wherein a wobble of said wobbled groove, compared to a sinusoidal wobble, contains a steeper outwardly inclination at positive marks, and a steeper inwardly inclination at negative marks.

41. (Currently Amended) An information media ~~carrier~~ according to claim 40, wherein one of a logical "0" ["1"] and ~~or~~ "1" ["0"] is indicated by a plurality of said positive marks, and the other one of a logical "0" and ~~or~~ "1" is indicated by a plurality of said negative marks, respectively.

42. (Currently Amended) An information media ~~carrier~~ according to claim 39, wherein one of a logical “0” [“1”] and ~~or~~ “1” [“0”] is indicated by a plurality of said positive marks, and the other one of a logical “0” and ~~or~~ “1” is indicated by a plurality of said negative marks, respectively.

43. (Currently Amended) An information media ~~carrier~~ according to claim 39, wherein said wobbled groove contains a combination of said positive marks and said negative marks for indicating an address signal.

44. (Currently Amended) An information media ~~carrier~~ according to claim 39, wherein said wobbled groove contains a combination of at least one of said positive marks and at least one of said negative marks for indicating a synchronization signal.

45. (Currently Amended) A reproducing apparatus for reproducing an information signal from an information media ~~carrier~~ having a wobbled groove formed along a track, wherein the wobbled groove ~~is modulated with an information signal in such a way that the wobbled groove~~ contains positive marks and negative marks, and wherein at least one~~one or more~~ of the positive marks is ~~are~~ used for indicating one of a logical “0” [“1”] and ~~or~~ “1” [“0”] and at least one ~~one or more~~ of the negative marks is ~~are~~ used for indicating the other one of a logical “0” and ~~or~~ “1”, respectively, said reproducing apparatus comprising:

a pickup unit operable to read ~~a~~ the information signal recorded on the information ~~carrier~~ media;

a detector operable to detect at least one of the positive marks and at least one of the negative marks from the read signal, and output at least one positive mark signal and at least one negative mark signal;

a generator operable to generate 1s and 0s according to the at least one positive mark signal and the at least one negative mark signal; and

a converter operable to convert the 1s and 0s produced from said generator to an address signal.

46. (Currently Amended) A reproducing apparatus according to claim 45, wherein a logical “1” is represented by at least one of the positive marks and a logical “0” is represented by at least one of the negative marks.

47. (Currently Amended) A reproducing apparatus according to claim 46, wherein said detector comprises a high pass filter operable to output a signal ~~detect a steeper inclination~~, and a comparator operable to compare ~~a~~ the signal output from said high pass filter with a predetermined level.

48. (Currently Amended) A reproducing apparatus according to claim 46, wherein said generator generates 1s and 0s according to a plurality of the positive mark signals and a plurality of the negative mark signals.

49. (Currently Amended) A reproducing apparatus according to claim 48, wherein said detector comprises a high pass filter operable to ~~detect a steeper inclination~~ output a signal, and a comparator operable to compare ~~a~~ the signal output from said high pass filter with a predetermined level.

50. (Currently Amended) A reproducing apparatus according to claim 45, wherein said generator generates 1s and 0s according to a plurality of the positive mark signals and a plurality of the negative mark signals.

51. (Currently Amended) A reproducing apparatus according to claim 50, wherein said detector comprises a high pass filter operable to ~~detect a steeper inclination~~ output a signal, and a comparator operable to compare ~~a~~ the signal output from said high pass filter with a predetermined level.

52. (Currently Amended) A reproducing apparatus according to claim 45, wherein said detector comprises a high pass filter operable to ~~detect a steeper inclination~~ output a signal, and a comparator operable to compare ~~a~~ the signal output from said high pass filter with a predetermined level.